

SHSD Job Risk Assessment

Job Number: SHSD-JRA-03 Job Title: IH Lab Work	Point Value → Parameter ↓	1	2	3	4	5
Name(s) of Specific Application Risk Team Members: R. Roberts, R. Wilson, D. Adika, R. Selvey, E. Lacina	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Processing and shipping samples, meter repair & calibrations in the IH Lab	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training Procedures List (Optional): Applicable Standard Operating Procedures: Approved by: R. Selvey Date: 03/01/06 Rev. #: 0	Likelihood (D)	Very Unlikely	Unlikely	Possible	Probable	Multiple
Stressors (if applicable, please list all)		Reason for Revision (if applicable):			Comments:	

		Without Controls					Before Additional Controls						After Additional Controls								
Activity	Hazard	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s)	Stressor	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Air sampling pump & media preparation and pre/post calibration	ergonomics- lifting	1	4	2	2	16	Light weight of equipment prevents most injuries (Gast/SKC pumps, tubing and media less than 5 lbs.),	N	1	4	2	2	16								
	cuts/ scraps from filter holders, glass tubes	1	4	2	2	16	spring on filter holders are bent inward; scoring devices makes clean breaks (triangle file may result in jagged end)	N	1	4	2	2	16	scoring tool is old, need to replace with new units	N	1	4	2	1	8	50%
	electric shock from charging pumps and Gast pump use	1	3	1	1	3	Gast is double insulated 110V, GFCI near sink, visual inspection of plugs, low voltage DC on SKC pumps	N	1	3	1	1	3								
Meter preparation and calibration with gas standards	ergonomic from drops, smashed fingers, strain to extremities or back	1	4	3	2	24	heavy items are stored on bottom shelf; step ladder is used for top shelf access; Miran case has wheels and extending handle, safety shoes recommended for use in this operation	N	1	4	3	2	24	Add Ladder Safety to the IH Lab Tech/ Manager JTA HP-51	N	1	4	3	2	24	0%

SHSD Job Risk Assessment

		Without Controls					Before Additional Controls						After Additional Controls								
Activity	Hazard	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s)	Stressor	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
	calibration compressed gas inhalation of toxic gas/vapors	1	3	2	1	6	lab hood is during releases, low volume of gas used, ambient level of toxic gases as released are less than PEL/TLV x 0.01	N	1	3	1	1	3								
	calibration compressed gas sudden pressure release	1	3	3	2	18	Regulators with flow restriction used on cal cylinders, two stage regulators used on GC purge gas cylinder, small volume in cal cylinders, secure holders used for storage, clamp stands used for delivery, safety glasses	N	1	3	3	1	9								
	Cuts from tools and fittings	1	2	2	2	8	skills of employees, safety glasses	N	1	2	2	2	8								
Processing Samples for shipment and shipping equipment for repair and calibration	travel to shipping department	-	-	-	-	-	same hazard as site level vehicle use, no additional hazards imposed	-	-	-	-	-	-								
	cuts from box cutters	1	3	2	3	18	safety box cutter with retracting blades used, safety glasses required	N	1	3	2	2	12								
	ergonomic from drops, smashed fingers, strain to extremities or back	1	3	3	2	18	package size and weight is very small for samples, most equipment is light in size, Miran case has wheels and extending handle	N	1	3	3	2	18								

Further Description of Controls Added to Reduce Risk:

- SKC scoring tool is old, need to replace with new unit. (Status: Closed- Four units (Draeger 6400010 were ordered from Continental Safety Supply on 3/01/06.)
- Add Ladder Safety to the IH Lab Tech/ Manager JTA HP-51 in IH50300 Training Matrix. (Status: Closed 03/01/06 by addition of JPM to the IH Training Matrix.)

Lesson Learned from this Risk Assessment: n/a

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
	Negligible	Acceptable	Moderate	Substantial	Intolerable

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